

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	(graphics near2 card display adj adaptor video adj card) with (secure isolated reserved) near3 memory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/30 21:11
L2	3	(graphics near2 card display adj adaptor video adj card) with (secure isolated reserved) near3 storage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/30 21:10
L3	8	(graphics near2 card display adj adaptor video adj card) with (secured isolated reserved) near3 memory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/30 23:00
L4	1	("5935247").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/30 22:31
L5	1	isolated adj bit adj plane	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/30 22:37
L6	0	secure adj bit adj plane	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/30 22:37
L7	13	(graphics near2 card display adj adaptor video adj card) with (partition\$2) near3 memory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/30 22:38
L8	29	(graphics near2 card display adj adaptor video adj card) same (secured isolated reserved) near3 memory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/30 23:01

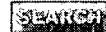
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L9	21	(graphics near2 card display adj adaptor video adj card) same (secured isolated reserved) near3 memory not 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/30 23:12
L10	1	("6476806").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/30 23:46
L11	7	(("6678825") or ("7085935") or ("6941458") or ("7082615") or ("6633963") or ("6957332") or ("6507904")).PN.	US-PGPUB; USPAT	OR	OFF	2007/09/30 23:48
S1	1	("6775779").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/30 21:03
S2	1993	((705/51) or (726/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/26 00:21
S3	192	S2 and (@pd > "20070514")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 00:22
S4	19	("20010037450" "20020004762" "5029206" "5457798" "5504814" "5692204" "5764889" "6047323" "6131165" "6243692" "6247127" "6289457" "6289458" "6321337" "6453419" "6606708" "6658571" "6671724" "6701362").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/26 00:29
S5	1	("6986059").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/28 20:41
S6	1	("20020012432").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/28 20:41
S7	12	england.in. and secure adj memory and (video graphic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/28 20:48
S8	1	(secure adj memory and ((video graphic) adj (card device))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/28 20:49

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S10	24	(secure adj memory and (video graphic)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/28 20:51
S11	21	(direct adj memory adj access adj controller) and secure adj memory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/28 20:58
S12	1	("7082615").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/28 20:59
S13	1	("6941458").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/28 20:59
S14	1	("6889324").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/29 00:49
S15	1	("6990683").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/29 00:56
S16	1	("7073072").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/29 00:58
S17	1	("5623548").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/29 01:16
S18	1	("6990683").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/29 02:40
S19	1	("5805700").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/29 02:40
S20	1	("6651171").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/30 14:01

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Result page: 1 [2](#) [next](#)Relevance scale **1 Integrated network interfaces for high-bandwidth TCP/IP** 

Nathan L. Binkert, Ali G. Saidi, Steven K. Reinhardt

October 2006 **ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , ACM SIGARCH Computer Architecture News , Proceedings of the 12th international conference on Architectural support for programming languages and operating systems ASPLOS-XII**, Volume 40 , 41 , 34 Issue 5 , 11 , 5**Publisher:** ACM PressFull text available:  pdf(420.79 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes new network interface controller (NIC) designs that take advantage of integration with the host CPU to provide increased flexibility for operating system kernel-based performance optimization. We believe that this approach is more likely to meet the needs of current and future high-bandwidth TCP/IP networking on end hosts than the current trend of putting more complexity in the NIC, while avoiding the need to modify applications and protocols. This paper presents two such NICs ...

Keywords: TCP/IP performance, interfaces; network, zero-copy**2 DRM, trusted computing and operating system architecture** 

Jason F. Reid, William J. Caelli

January 2005 **Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44 ACSW Frontiers '05****Publisher:** Australian Computer Society, Inc.Full text available:  pdf(191.31 KB) Additional Information: full citation, abstract, references, index terms

Robust technological enforcement of DRM licenses assumes that the prevention of direct access to the raw bit representation of decrypted digital content and the license enforcement mechanisms themselves is possible. This is difficult to achieve on an open computing platform such as a PC. Recent trusted computing initiatives namely, the Trusted Computing Group (TCG) specification, and Microsoft's Next Generation Secure Computing Base (NGSCB) aim in part to address this problem. The protection arc ...

3 Cryptography as an operating system service: A case study 

Angelos D. Keromytis, Jason L. Wright, Theo De Raadt, Matthew Burnside

February 2006 **ACM Transactions on Computer Systems (TOCS)**, Volume 24 Issue 1**Publisher:** ACM Press

Full text available: pdf(669.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Cryptographic transformations are a fundamental building block in many security applications and protocols. To improve performance, several vendors market hardware accelerator cards. However, until now no operating system provided a mechanism that allowed both uniform and efficient use of this new type of resource. We present the OpenBSD Cryptographic Framework (OCF), a service virtualization layer implemented inside the operating system kernel, that provides uniform access to accelerator functio ...

Keywords: Encryption, authentication, cryptographic protocols, digital signatures, hash functions

4 Introductory tutorials: parallel and distributed simulation: Parallel and distributed simulation: traditional techniques and recent advances

Kalyan S. Perumalla

December 2006 **Proceedings of the 38th conference on Winter simulation WSC '06**

Publisher: Winter Simulation Conference

Full text available: pdf(300.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This tutorial on parallel and distributed simulation systems reviews some of the traditional synchronization techniques and presents some recent advances.

5 Novel parallel hardware platforms: Design and implementation of a stream-based distributedcomputing platform using graphics processing units

Shinichi Yamagiwa, Leonel Sousa

May 2007 **Proceedings of the 4th international conference on Computing frontiers CF '07**

Publisher: ACM Press

Full text available: pdf(183.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Anonymous use of computing resources spread over the world becomes one of the main goals in GRID environments. In GRID-based computing, the security of users or of contributors of computing resources is crucial to execute processes in a safe way. This paper proposes a new method for streambased processing in a distributed environment and also a novel method to solve the security matter under this kind of processing. It also presents the design of the distributed computing platform developed f ...

Keywords: GPGPU, GPU, GRID, caravela, flow-model, stream-based computing

6 Bringing the high end to the low end: high performance device drivers of the Linux PC

Robert Geist, James Westall

April 1998 **Proceedings of the 36th annual Southeast regional conference ACM-SE 36**

Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

7 The interactive performance of SLIM: a stateless, thin-client architecture

Brian K. Schmidt, Monica S. Lam, J. Duane Northcutt

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.79 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Taking the concept of thin clients to the limit, this paper proposes that desktop machines should just be simple, stateless I/O devices (display, keyboard, mouse, etc.) that access a shared pool of computational resources over a dedicated interconnection fabric --- much in the same way as a building's telephone services are accessed by a collection of handset devices. The stateless desktop design provides a useful mobility model in which users can transparently resume their work on any desktop c ...

8 **Session 2A: applications and systems: A CAVE system for interactive modeling of global illumination in car interior** 

 Kirill Dmitriev, Thomas Annen, Grzegorz Krawczyk, Karol Myszkowski, Hans-Peter Seidel November 2004 **Proceedings of the ACM symposium on Virtual reality software and technology VRST '04**

Publisher: ACM Press

Full text available:  pdf(1.43 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Global illumination dramatically improves realistic appearance of rendered scenes, but usually it is neglected in VR systems due to its high costs. In this work we present an efficient global illumination solution specifically tailored for those CAVE applications, which require an immediate response for dynamic light changes and allow for free motion of the observer, but involve scenes with static geometry. As an application example we choose the car interior modeling under free driving conditio ...

Keywords: BRDF, CAVE, LCD panel, virtual reality

9 **The Linux-GGI Project** 

Steffen Seeger, Andreas Beck
November 1996 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  html(16.04 KB) Additional Information: [full citation](#), [index terms](#)

10 **Quantum rendering: an introduction to quantum computing and quantum algorithms, and their applications to computer graphics: Quantum rendering: an introduction to quantum computing, quantum algorithms and their applications to computer graphics** 

 Marco LanzaGorta, Jeffrey Uhlmann
July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

Publisher: ACM Press

Full text available:  pdf(942.06 KB) Additional Information: [full citation](#)

11 **Facial modeling and animation** 

 Jörg Haber, Demetri Terzopoulos
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  pdf(18.15 MB) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art

techniques such as muscle-based facial animation, mass-s ...

12 Implementation and emulation: An FPGA-based Pentium® in a complete desktop system



Shih-Lien L. Lu, Peter Yiannacouras, Rolf Kassa, Michael Konow, Taeweon Suh
February 2007 **Proceedings of the 2007 ACM/SIGDA 15th international symposium on Field programmable gate arrays FPGA '07**

Publisher: ACM Press

Full text available: pdf(195.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Software simulation has been the predominant method for architects to evaluate microprocessor research proposals. There are three tenets in modeling new designs with software models: simulation speed, model accuracy and model completeness. The increasing complexity of the processor and accelerated trend to have multiple processors on a chip are putting burden on simulators to achieve all tenets mentioned, including accurately capturing OS effects. In this work we perform preliminary experimentat ...

Keywords: FPGA, accelerator, emulator, pentium®, processor

13 Building a computer: Teaching computer organization/architecture by building a computer



Timothy Urness
June 2007 **Proceedings of the 2007 workshop on Computer architecture education WCAE '07**

Publisher: ACM Press

Full text available: pdf(63.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a series of exercises and assignments suggested for an introductory computer organization or computer architecture course. The primary objective of these exercises is to engage a class of students by introducing the practical, hands-on application of assembling a computer by selecting or purchasing individual components. While the ideal implementation involves the purchasing and assembling of components, various alternatives will be presented that do not require any addit ...

Keywords: computer architecture, computer science education, hardware

14 X Window System Administration



Jay Ts
December 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(34.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An introduction to X structure, configuration and customization

15 Best of technical support



Linux Journal Staff
October 2004 **Linux Journal**, Volume 2004 Issue 126

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(13.68 KB) Additional Information: [full citation](#)

16 The HIVE: Hanover immersive virtual environment



Daniel C. Cliburn, Kevin Stormer

April 2005 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 4

Publisher: Consortium for Computing Sciences in Colleges

Full text available: [pdf\(491.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The HIVE is a multi-screen passive stereo virtual reality (VR) projection system constructed from commodity hardware for less than \$4000. Users of the HIVE stand in the middle of a box-like structure and are presented with stereo (or 3D) images to their front, left, and right. The HIVE uses rear projection screens constructed from an acrylic material, so that users can walk right up to images without casting a shadow on the display. This adds a heightened sense of realism to applications. Images ...

17 Collaborative virtual environment: Advanced real-time collaboration over the internet 

 Chris Joslin, Tom Molet, Nadia Magnenat-Thalmann

October 2000 **Proceedings of the ACM symposium on Virtual reality software and technology VRST '00**

Publisher: ACM Press

Full text available: [pdf\(1.48 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper we present our Networked Virtual Environment (NVE) System, called W-VLNET (**Windows Virtual Life Network**), which has been developed on the Windows NT Operating System (OS). This paper emphasizes the Real-Time aspect of this NVE system, the advanced interactivity that the system provides and its ability to transfer data across the Internet so that geographically distant users can collaborate with each other.

Techniques for communication, scene management, ...

Keywords: Advanced Interaction, Distance Collaboration, Motion Tracking, Network Virtual Environment, Networks, Real-Time Interactions

18 Who needs Windows Vista? 

 Aaron Weiss

December 2006 **netWorker**, Volume 10 Issue 4

Publisher: ACM Press

Full text available: [pdf\(90.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

[html\(30.53 KB\)](#)

Eleven years ago, Microsoft heralded the launch of Windows 95 with great media fanfare, famously backed by the Rolling Stones' "Start Me Up." Five years ago, Microsoft unleashed Windows XP, feted with a \$250 million marketing campaign. Eighteen months ago, Microsoft unveiled an estimated \$200 million campaign to promote...Windows XP, again. Because by 2005, its planned successor, now known as Windows Vista, was nowhere to be found---and already six months late.

19 The Puzzle of 3D Graphics on Linux 

John Matthews, Daryll Strauss

September 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(16.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

From OpenGL to DRI to DGA, each term refers to a particular part of the full scene of Linux graphics.

20 geek@home: Rationalizing a home terabyte server 

 Mache Creeger

September 2006 **Queue**, Volume 4 Issue 7

Publisher: ACM Press

Full text available: [!\[\]\(7e49c700e4adaed94ad5398cf2e7059e_img.jpg\) pdf\(84.48 KB\)](#)

[!\[\]\(5ebcf382a6ee952d6c5b8b948415801e_img.jpg\) htm\(9.54 KB\)](#)

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